**IN THE CLAIMS:**

1.    (Currently Amended) A golf ball having the diameter D of 43.0 mm or greater and 50.0 mm or less, which comprises a core and a cover having the specific gravity of 1.05 or greater and 1.50 or less, with the moment of inertia of said golf ball being equal to or greater than 92 ~~85.0~~ $gcm^2$.

2.    (Cancelled)

3.    (Currently Amended) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I) where Y is equal to or greater than 92:

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$

4.    (Cancelled)

5.    (Previously Presented)    The golf ball according to claim 1 wherein the diameter D is 43.5 mm or greater and 48.0 mm or less.

6.    (Previously Presented)    The golf ball according to claim 1 wherein the diameter D is 44.0 mm or greater and 47.0 mm or less.

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7.    (Previously Presented)    The golf ball according to claim 1 wherein the specific gravity is 1.10 or greater and 1.45 or less.

8.    (Previously Presented)    The golf ball according to claim 1 wherein the specific gravity is 1.15 or greater and 1.40 or less.

9.    (Currently Amended) The golf ball according to claim 1 wherein the moment of inertia is ~~equal to or greater than 86.0 gcm²~~ ~~and~~ equal to or less than 150 gcm².

10.    (Currently Amended) The golf ball according to claim 1 wherein the moment of inertia is ~~equal to or greater than 88.0 gcm²~~ ~~and~~ equal to or less than 130 gcm².

11.    (Currently Amended) The golf ball according to claim 5 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I) <u>where Y is equal to or greater than 92</u>:

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$

12.    (Currently Amended) The golf ball according to claim 6 wherein the moment of inertia is equal to or greater than the value

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Y calculated by the following mathematical formula (I) <u>where Y is</u> <u>equal to or greater than 92</u>:

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$